

WEST Search History

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DATE: Monday, October 03, 2005

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DB=EPAB; PLUR=NO; OP=ADJ

L6 EP-1439590-A2.did. 1

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ

L5 liquid crystal\$ with field effect\$ transistor\$ with polymer\$ 50

L4 liquid crystal\$ with field effect\$ transistor\$ 861

L3 liquid crystal\$ with fet 670

L2 L1 and fet 1

L1 20040119049 2

END OF SEARCH HISTORY

AN 1999:575455 CAPLUS
DN 131:323145
ED Entered STN: 14 Sep 1999
TI Regioregular Di(2'-(thienyl))furan- and Di(2'-thienyl)benzene-Based Polymers: Steric and Heavy-Atom Effects on the Luminescence of Conjugated Systems
AU Yang, Cheng; Abley, Michael; Holdcroft, Steven
CS Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6, Can.
SO Macromolecules (1999), 32(20), 6889-6891
CODEN: MAMOBX; ISSN: 0024-9297
PB American Chemical Society
DT Journal
LA English
CC 36-5 (Physical Properties of Synthetic High Polymers)
Section cross-reference(s): 73
AB A systematic investigation of photoluminescence quantum yields (solution and solid state) of regiochem. controlled polymers of 1,4-di(2-hexylthienyl)benzene, 2,5-di(2'-hexylthienyl)furan, and 2,5-di[2'-(3'-hexylthienyl)thiophene] is reported. The polymers were prepared chemical oxidation of the corresponding monomers in the presence of FeCl₃ in CCl₄. The UV-visible absorption and fluorescence spectra were measured for both the monomers and polymers. Fluorescence data and structure of solid polymers are discussed together with their suitability as materials for light emitting diodes.
ST regioregular dithienylfuran dithienylbenzene deriv polymer luminescence
IT Polymer chains
(configuration; steric and heavy-atom effects on luminescence of regioregular di(2'-(thienyl))furan- and di(2'-thienyl)benzene-based polymers)
IT Polymers, properties
RL: PRP (Properties)
(conjugated; steric and heavy-atom effects on luminescence of regioregular di(2'-(thienyl))furan- and di(2'-thienyl)benzene-based polymers)
IT Phosphors
(electroluminescent; steric and heavy-atom effects on luminescence of regioregular di(2'-(thienyl))furan- and di(2'-thienyl)benzene-based polymers)
IT Fluorescence
UV and visible spectra
(steric and heavy-atom effects on luminescence of regioregular di(2'-(thienyl))furan- and di(2'-thienyl)benzene-based polymers)
IT 135831-09-3 249575-17-5 249575-20-0 249575-21-1 249575-22-2
RL: PRP (Properties)
(UV spectra and fluorescence of)
IT 135831-08-2 249575-12-0 249575-13-1 249575-14-2 249575-15-3
RL: PRP (Properties)
(monomer; UV spectra and fluorescence of)
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Andreani, F; Polymer 1996, V37, P661 CAPLUS
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 (19) Yan, M; Phys Rev Lett 1994, V73, P744 CAPLUS

IT **249575-22-2**

RL: PRP (Properties)
 (UV spectra and fluorescence of)

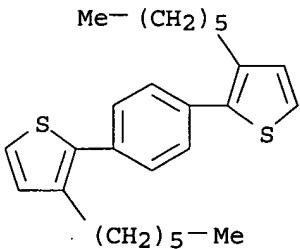
RN 249575-22-2 CAPLUS

CN Thiophene, 2,2'-(1,4-phenylene)bis[3-hexyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 249575-15-3

CMF C26 H34 S2

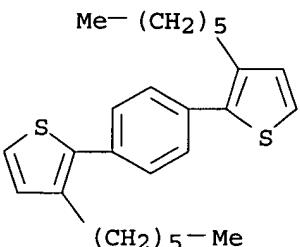


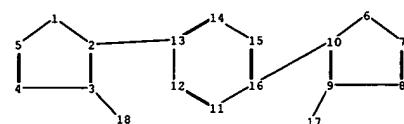
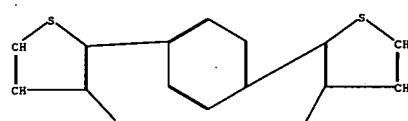
IT **249575-15-3**

RL: PRP (Properties)
 (monomer; UV spectra and fluorescence of)

RN 249575-15-3 CAPLUS

CN Thiophene, 2,2'-(1,4-phenylene)bis[3-hexyl- (9CI) (CA INDEX NAME)





chain nodes :

17 18

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

chain bonds :

2-13 3-18 9-17 10-16

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 11-12 11-16 12-13
13-14 14-15 15-16

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10

exact bonds :

2-13 3-18 9-17 10-16

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS
18:CLASS